



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Rawlins *et al.*

Appl. No.: 09/987,193

Filed: November 13, 2001

For: **Method And Apparatus For A
Parallel Correlator And
Applications Thereof**

Confirmation No.: 6140

Art Unit: 2124

Examiner: Malzahn, David H.

Atty. Docket: 1744.1200001

Second Supplemental Information Disclosure Statement

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Second Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Supplemental Information Disclosure Statement filed on July 1, 2003 in connection with the above-captioned application.

In addition to providing hard copies of the documents as required by applicable rules, Applicants herewith provide a Compact Disc labeled "Disc 3" having stored thereon searchable electronic copies (in PDF format) of the documents listed on the PTO-1449. More specifically, the CD contains electronic copies of documents AK23, AL23, AB53-AI53, AA54-AI54, AA55-AI55, AA56-AI56, AA57-AD57, AR58, AN59, and AO59. In addition, the CD also contains electronic copies of documents AM13, AJ14-AM14, AJ15-AM15, AJ16-AM16, AJ17-AM17, AJ18-AM18, AJ19-AM19, AJ20-AM20, AJ21-AM21, AJ22-AM22, AJ23, AC46-AI46, AA47-AI47, AA48-AI48, AA49-

AI49, AA50-AI50, AA51-AH51, AQ51, AR51, AC52-AI52, AN52-AR52, AA53, AN53-AR53, AN54-AR54, AN55-AR55, AN56-AR56, AN57-AR57, and AN58-AQ58, all of which were cited in the present application in previous Information Disclosure Statements. Documents AE57-AI57, AA58-AI58, AA59-AI59, AP59, AA60-AI60, AA61-AI61, AA62-AI62, AA63-AI63, and AA64-AC64 have not been scanned. The file names on the CD correspond to the identifiers on the PTO-1449 forms. It is noted that the CD is being provided in addition to hard copies of the documents for the convenience of the Examiner.

Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Applicants provide the following comments regarding the documents:

Document AK23 was cited in an Office Action in related Japanese Patent Application No. 2000-577,764, filed June 21, 2000, entitled "Applications of Frequency Translation," directed to related subject matter.

Documents AL23, AI56, AA57, AB57, AO59, and AH61 were cited in an Office Action in related U.S. Patent Application No. 09/669,634, filed September 26, 2000, entitled "High Frequency Translator and Method of High Frequency Translation,"

directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 6,049,706; 6,421,534; and 6,560,301, which have already been cited in the present application.

Documents AC53 and AA60 were cited in an Office Action in related U.S. Patent Application No. 10/289,377, filed November 7, 2002, entitled "Method and Apparatus for Reducing DC Offsets in a Communication System," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,471,665 and 5,898,912, which have already been cited in the present application.

Documents AB53-AE53 were cited in a search report in related PCT Application No. PCT/US02/35861, filed November 8, 2002, entitled "Method and Apparatus for Reducing DC Offsets in a Communication System," directed to related subject matter.

Documents AF53-AI53 and AA54-AC54 were cited in an Office Action in related U.S. Patent Application No. 09/476,093, filed January 3, 2000, entitled "Family Radio System with Multi-Mode and Multi-Band Functionality," directed to related subject matter.

Documents AC54 and AI61 were cited in an Office Action in related U.S. Patent Application No. 09/476,093, filed January 3, 2000, entitled "Communication System Method With Multi-Mode and Multi-Band Functionality and Embodiments Thereof, Such as the Family Radio Service," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,937,013, which has already been cited in the present application.

Documents AD54-AG54 were cited in a search report in related PCT Application No. PCT/US03/16403, filed May 27, 2003, entitled "Method and Apparatus for DC

Offset Removal in a Radio Frequency Communication Channel,” directed to related subject matter.

Documents AE54 and AC62-AE62 were cited in an Written Opinion in related PCT Application No. PCT/US03/16403, filed May 27, 2003, entitled "Method and Apparatus for DC Offset Removal in a Radio Frequency Communication Channel," directed to related subject matter.

Documents AE54, AF62-AI62, AA63, and AB63 were cited in an Office Action in related U.S. Patent Application No. 10/290,323, filed November 8, 2002, entitled "Method and Apparatus for DC Offset Removal in a Radio Frequency Communication Channel," directed to related subject matter.

Documents AH54 and AI54 were cited in an Office Action in related U.S. Patent Application No. 09/550,642, filed April 14, 2000, entitled “Method and System for Down-converting an Electromagnetic Signal, and Transforms for Same,” directed to related subject matter.

Documents AA55, AI55, AF56, AG56, AC57, AD57, and AC64 are co-owned patents which are directed to related subject matter.

Documents AB55-AF55 were cited in an Office Action in related U.S. Patent Application No. 09/548,923, filed April 13, 2000, entitled “Method and System for Frequency Conversion with Modulation Embodiments,” directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 6,091,940 and 6,353,735, which have already been cited in the present application.

Documents AE55, AC60, and AD60 were cited in an Office Action in related U.S. Patent Application No. 09/525,185, filed March 14, 2000, entitled "Spread Spectrum Applications of Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,339,459 and 5,937,013, which have already been cited in the present application.

Documents AG55 and AH55 were cited in an Office Action in related U.S. Patent Application No. 09/543,867, filed April 5, 2000, entitled "Automated Meter Reader Applications of Universal Frequency Translation," directed to related subject matter.

Documents AI55, AF56, AG56, AC57, AD57, and AB60 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/838,387, filed April 20, 2001, entitled "Method and System for Down-Converting and Up-Converting an Electromagnetic Signal, and Transforms for Same," directed to related subject matter. Also cited in said Notice of Allowance were U.S. Patent Nos. 5,937,013 and 6,061,551, which have already been cited in the present application.

Documents AA56 and AB56 were cited in an Office Action in related U.S. Patent Application No. 10/317,181, filed December 12, 2002, entitled "Differential Frequency Down-Conversion Using Techniques of Universal Frequency Translation Technology," directed to related subject matter.

Documents AC56 and AD56 were cited in an Office Action in related U.S. Patent Application No. 10/317,165, filed December 12, 2002, entitled "Method and Apparatus for Reducing DC Offsets in Communication Systems Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AE56 and AN59 were cited in an Office Action in related U.S. Patent Application No. 09/567,977, filed May 10, 2000, entitled, "Optical Down-converter Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AE56, AP59 and AA64 were cited in an Office Action in related U.S. Patent Application No. 09/567,977, filed May 10, 2000, entitled "Optical Down-converter Using Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action were Dines, J.A.B., "Smart Pixel Optoelectronic Receiver Based on a Charge Sensitive Amplifier Design," *IEEE Journal of Selected Topics in Quantum Electronics*, IEEE, Vol. 2, No. 1, pp. 117-120 (April 1996); Simoni, A. *et al.*, "A Digital Camera for Machine Vision," *20th International Conference on Industrial Electronics, Control and Instrumentation*, IEEE, pp. 879-883 (September 1994); and Stewart, R.W. and Pfann, E., "Oversampling and sigma-delta strategies for data conversion," *Electronics & Communication Engineering Journal*, IEEE, pp. 37-47 (February 1998), which have already been cited in the present application.

Documents AG56, AC57, AA62, and AB62 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/525,615, filed March 14, 2000, entitled "Method, System, and Apparatus for Balanced Frequency Up-conversion of a Baseband Signal and 4-Phase Receiver and Transceiver Embodiments," directed to related subject matter. Also cited in said Notice of Allowance were U.S. Patent Nos. 6,091,940 and 6,370,371, which have already been cited in the present application.

Document AH56 was cited in an Office Action in related U.S. Patent Application No. 09/567,977, filed May 10, 2000, entitled, "Optical Down-converter Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AE57-AH57 were cited in an Office Action in related U.S. Patent Application No. 09/567,978, filed May 10, 2000, entitled "Carrier and Clock Recovery Using Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,937,013, which has already been cited in the present application.

Documents AI57 and AA58 were cited in a Notice of Allowance in related U.S. Patent Application No. 10/330,219, filed December 30, 2002, entitled "Methods and Systems for Down-Converting Electromagnetic Signals, and Applications Thereof," directed to related subject matter.

Documents AB58-AI58 and AA59-AD59 were cited in an Office Action in related U.S. Patent Application No. 09/566,188, filed May 5, 2000, entitled "Integrated Frequency Translation and Selectivity with Gain Control Functionality, and Applications Thereof," directed to related subject matter.

Documents AE59 and AF59 were cited in an Office Action in related U.S. Patent Application No. 09/632,856, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Using Universal Frequency Translation Technology Including Multi-Phase Embodiments and Circuit Implementation," directed to related subject matter.

Documents AG59-AI59 were cited in an Office Action in related U.S. Patent Application No. 09/569,044, filed May 10, 2000, entitled "Universal Platform Module and Methods and Apparatuses Relating Thereto Enabled by Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 2,057,613; 2,241,078; 2,283,575; 2,358,152; 2,410,350;

2,451,430; 2,472,798; 4,653,117; and 5,241,561, which have already been cited in the present application.

Documents AE60-AH60 were cited in an Office Action in related U.S. Patent Application No. 09/569,045, filed May 10, 2000, entitled "Methods and Apparatuses Relating to a Universal Platform Module and Enabled by Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,339,459 and 5,557,641, which have already been cited in the present application.

Documents AI60, AA61, and AB61 were cited in an Office Action in related U.S. Patent Application No. 09/590,955, filed June 9, 2000, entitled "Phase Shifting Applications of Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,339,459, which has already been cited in the present application.

Documents AC61-AE61 were cited in an Office Action in related U.S. Patent Application No. 09/550,642, filed April 14, 2000, entitled "Method and System for Down-Converting an Electromagnetic Signal, and Transforms for Same," directed to related subject matter.

Documents AF61 and AG61 were cited in an Office Action in related U.S. Patent Application No. 10/317,165, filed December 12, 2002, entitled "Method and Apparatus for Reducing DC Offsets in Communication Systems Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AC63-AE63 were cited in an Office Action in related U.S. Patent Application No. 09/632,857, filed August 4, 2000, entitled "Wireless Local Area

Network (WLAN) Technology and Applications Including Techniques of Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,937,013; 6,014,551; 6,073,001; 6,085,073; and 6,314,279, which have already been cited in the present application.

Documents AF63-AI63 were cited in an Office Action in related U.S. Patent Application No. 09/986,764, filed November 9, 2001, entitled "Method and Apparatus for Reducing DC Offsets in a Communication System," directed to related subject matter.

Document AB64 was cited in an Office Action in related U.S. Patent Application No. 09/632,857, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Technology and Applications Including Techniques of Universal Frequency Translation," directed to related subject matter.

It is noted that some of these documents could be classified in more than one of the above categories.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- ☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.

- ☒ 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed concurrently with the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.
- ☐ 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.
- ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ c. Attached is our PTO-2038 Credit Card Payment Form in the amount of _____ in payment of the fee under 37 C.F.R. § 1.17(p).
- ☐ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$ _____ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:
- ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign

application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

- ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

- ☐ 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.

- ☒ 6. A concise explanation of the relevance of non-English language documents AK23 and AL23 appears below:

Document AK23 (JP 9-36664) appears to describe a frequency conversion circuit. A copy of the English-language abstract of document AK23 is enclosed as document AR58.

Document AL23 (DE 196 48 915 A1) appears to describe a process of frequency conversion. An English-language translation of document AL23 is enclosed as document AO59.

- ☒ 7. Copies of documents AK23, AL23, AR58, and AN59-AP59 are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), no copies of U.S. patents and patent application publications cited on the attached Form PTO-1449 are submitted.

- ☐ 8. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. _____, filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

- ☐ 9. It is expected that the examiner will review the prosecution and cited art in the parent application no. _____, filed _____, and indicate in the next communication from the office that the art cited in the earlier prosecution histories have been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

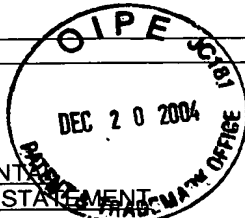
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



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Attorney for Applicants
Registration No. 39,987

Date: 12/20/04

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FORM PTO-1449

ATTY. DOCKET NO.
1744.1200001APPLICATION NO.
09/987,193INVENTORS
Rawlins *et al.*FILING DATE
November 13, 2001ART UNIT
2124SECOND SUPPLEMENTARY
INFORMATION DISCLOSURE STATEMENT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB53	5,751,154	05/1998	Tsugai			
	AC53	5,793,817	08/1998	Wilson			
	AD53	6,225,848 B1	05/2001	Tilley <i>et al.</i>			
	AE53	6,313,685 B1	11/2001	Rabii			
	AF53	3,614,627	10/1971	Runyan <i>et al.</i>			
	AG53	3,940,697	02/1976	Morgan			
	AH53	4,016,366	04/1977	Kurata			
	AI53	4,045,740	08/1977	Baker			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK23	JP 9-36664	02/1997	JP			No
	AL23	DE 196 48 915 A1	06/1998	DE			Yes (Doc. AO59)
	AM						Yes No

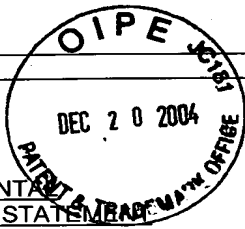
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN		
	AO		
	AP		
	AQ		
	AR	<u>58</u>	English-language Abstract of Japanese Patent Publication No. 09-036664, from http://www1.ipdl.jpo.go.jp , 2 Pages (February 7, 1997 - Date of publication of application).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA54	4,115,737	09/1978	Hongu <i>et al.</i>			
	AB54	5,710,992	01/1998	Sawada <i>et al.</i>			
	AC54	5,790,587	08/1998	Smith <i>et al.</i>			
	AD54	4,740,675	04/1988	Brosnan <i>et al.</i>			
	AE54	5,483,600	01/1996	Werrbach			
	AF54	6,011,435	01/2000	Takeyabu <i>et al.</i>			
	AG54	6,321,073 B1	11/2001	Luz <i>et al.</i>			
	AH54	6,026,286	02/2000	Long			
	AI54	6,178,319 B1	01/2001	Kashima			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

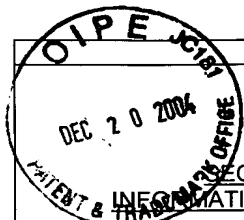
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN	<u>59</u>	Simoni, A. <i>et al.</i> , "A Single-Chip Optical Sensor with Analog Memory for Motion Detection," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. 30, No. 7, pp. 800-806 (July 1995).
	AO	<u>59</u>	English Translation of German Patent Publication No. DE 196 48 915 A1, 10 pages.
	AP	<u>59</u>	Deboo, Gordon J., <i>Integrated Circuits and Semiconductor Devices</i> , 2 nd Edition, McGraw-Hill, Inc., pp. 41-45 (1977).
	AQ		
	AR		

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA55	6,634,555 B1	10/2003	Sorrells <i>et al.</i>			
	AB55	3,736,513	05/1973	Wilson			
	AC55	4,488,119	12/1984	Marshall			
	AD55	4,633,510	12/1986	Suzuki <i>et al.</i>			
	AE55	5,369,789	11/1994	Kosugi <i>et al.</i>			
	AF55	5,416,449	05/1995	Joshi			
	AG55	5,438,329	08/1995	Gastouniotis <i>et al.</i>			
	AH55	6,611,569 B1	08/2003	Schier <i>et al.</i>			
	AI55	6,647,250 B1	11/2003	Bultman <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

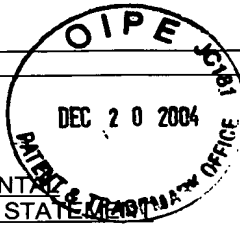
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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FORM PTO-1449

SECOND SUPPLEMENTARY
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA56	5,682,099	10/1997	Thompson <i>et al.</i>			
	AB56	6,094,084	07/2000	Abou-Allam <i>et al.</i>			
	AC56	6,067,329	05/2000	Kato <i>et al.</i>			
	AD56	6,516,185 B1	02/2003	MacNally			
	AE56	6,608,647	08/2003	King			
	AF56	6,687,493 B1	02/2004	Sorrells <i>et al.</i>			
	AG56	6,694,128 B1	02/2004	Sorrells <i>et al.</i>			
	AH56	6,031,217	02/2000	Aswell <i>et al.</i>			
	AI56	5,955,992	09/1999	Shattil			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

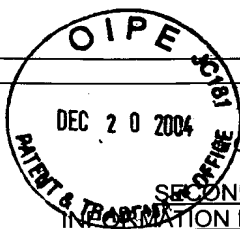
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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	AO		
	AP		
	AQ		
	AR		

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1744.1200001	APPLICATION NO. 09/987,193
		INVENTORS Rawlins <i>et al.</i>	
		FILING DATE November 13, 2001	ART UNIT 2124

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA57	5,999,561	12/1999	Naden <i>et al.</i>			
	AB57	6,686,879 B2	02/2004	Shattil			
	AC57	6,704,549 B1	03/2004	Sorrells <i>et al.</i>			
	AD57	6,704,558 B1	03/2004	Sorrells <i>et al.</i>			
	AE57	5,490,176	02/1996	Peltier			
	AF57	5,970,053	10/1999	Schick <i>et al.</i>			
	AG57	6,078,630	06/2000	Prasanna			
	AH57	6,600,911 B1	07/2003	Morishige <i>et al.</i>			
	AI57	5,179,731	01/1993	Tränkle <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN		
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	AP		
	AQ		
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FORM PTO-1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.1200001APPLICATION NO.
09/987,193INVENTORS
Rawlins *et al.*FILING DATE
November 13, 2001ART UNIT
2124

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA58	5,589,793	12/1996	Kassapian			
	AB58	4,510,467	04/1985	Chang <i>et al.</i>			
	AC58	4,772,853	09/1988	Hart			
	AD58	4,972,436	11/1990	Halim <i>et al.</i>			
	AE58	5,012,245	04/1991	Scott <i>et al.</i>			
	AF58	5,422,909	06/1995	Love <i>et al.</i>			
	AG58	5,440,311	08/1995	Gallagher <i>et al.</i>			
	AH58	5,926,513	07/1999	Suominen <i>et al.</i>			
	AI58	5,995,030	11/1999	Cabler			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AK						Yes No
	AL						Yes No
	AM						Yes No

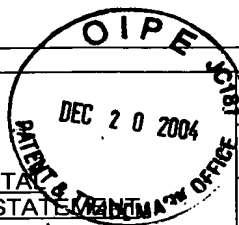
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	AA59	6,047,026	04/2000	Chao <i>et al.</i>			
	AB59	6,049,573	04/2000	Song			
	AC59	6,076,015	06/2000	Hartley <i>et al.</i>			
	AD59	6,144,331	11/2000	Jiang			
	AE59	6,018,553	01/2000	Sanielevici <i>et al.</i>			
	AF59	6,317,589 B1	11/2001	Nash			
	AG59	5,058,107	10/1991	Stone <i>et al.</i>			
	AH59	5,757,858	05/1998	Black <i>et al.</i>			
	AI59	6,531,979 B1	03/2003	Hynes			

FOREIGN PATENT DOCUMENTS

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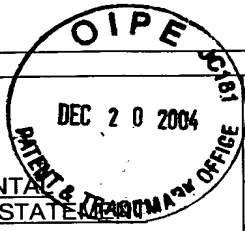
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	AA60	6,018,262	01/2000	Noro <i>et al.</i>			
	AB60	4,761,798	08/1988	Griswold, Jr. <i>et al.</i>			
	AC60	5,982,315	11/1999	Bazarjani <i>et al.</i>			
	AD60	6,459,721 B1	10/2002	Mochizuki <i>et al.</i>			
	AE60	6,151,354	11/2000	Abbey			
	AF60	6,169,733 B1	01/2001	Lee			
	AG60	6,363,262 B1	03/2002	McNicol			
	AH60	6,697,603 B1	02/2004	Lovinggood <i>et al.</i>			
	AI60	5,282,222	01/1994	Fattouche <i>et al.</i>			

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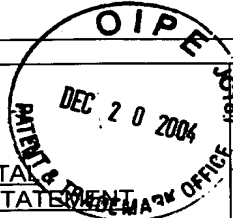
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	AA61	5,949,827	09/1999	DeLuca <i>et al.</i>			
	AB61	6,014,176	01/2000	Nayebi <i>et al.</i>			
	AC61	5,678,226	10/1997	Li <i>et al.</i>			
	AD61	5,760,632	06/1998	Kawakami <i>et al.</i>			
	AE61	6,160,280	12/2000	Bonn <i>et al.</i>			
	AF61	5,481,570	01/1996	Winters			
	AG61	5,745,846	04/1998	Myer <i>et al.</i>			
	AH61	5,345,239	09/1994	Madni <i>et al.</i>			
	AI61	4,132,952	01/1979	Hongu <i>et al.</i>			

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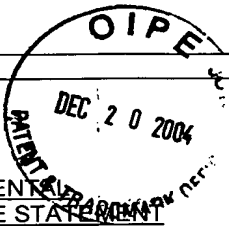
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				INVENTORS Rawlins <i>et al.</i>			
				FILING DATE November 13, 2001			
				ART UNIT 2124			
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA62	5,260,973	11/1993	Watanabe			
	AB62	6,307,894 B2	10/2001	Eidson <i>et al.</i>			
	AC62	6,091,289	07/2000	Song <i>et al.</i>			
	AD62	6,437,639 B1	08/2002	Nguyen <i>et al.</i>			
	AE62	2002/0037706 A1	03/2002	Ichihara			
	AF62	4,441,080	04/1984	Saari			
	AG62	4,873,492	10/1989	Myer			
	AH62	5,697,074	12/1997	Makikallio <i>et al.</i>			
	AI62	5,784,689	07/1998	Kobayashi			
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
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	AA63	6,335,656 B1	01/2002	Goldfarb <i>et al.</i>			
	AB63	6,690,232 B2	02/2004	Ueno <i>et al.</i>			
	AC63	5,636,140	06/1997	Lee <i>et al.</i>			
	AD63	6,366,622 B1	04/2002	Brown <i>et al.</i>			
	AE63	6,600,795 B1	07/2003	Ohta <i>et al.</i>			
	AF63	4,250,458	02/1981	Richmond <i>et al.</i>			
	AG63	5,760,629	06/1998	Urabe <i>et al.</i>			
	AH63	6,084,465	07/2000	Dasgupta			
	AI63	6,204,789 B1	03/2001	Nagata			

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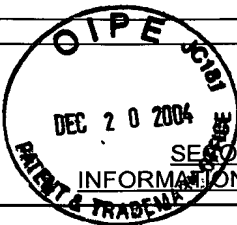
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	AA64	6,064,054	05/2000	Waczynski <i>et al.</i>			
	AB64	5,834,979	11/1998	Yatsuka			
	AC64	6,798,351 B1	09/2004	Sorrells <i>et al.</i>			
	AD64						
	AE64						
	AF64						
	AG64						
	AH64						
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